

California Emission Inventory Development and Reporting System 2.5 (CEIDARS2.5) Transaction Format

This document specifies the CEIDARS2.5 Transaction Format for transferring emission inventory data between local Air Quality Management Districts/Air Pollution Control Districts and the Air Resources Board (ARB).

CEIDARS2.5 transactions are in an ASCII comma delimited format whereby each field is separated by a comma delimiter. Numeric fields need not be enclosed in double quotes, but all character fields should be enclosed in double quotes to avoid problems where commas may be used within the data.

There are twelve types of transactions: one each for transferring facility, facility risk, stack, device, process, emission, excess emission, supplemental, building, building point, property, property data, and receptor data. [Facility risk transaction can be used independently to submit facility risk data.](#) These transactions are identified by the **TRANS_ID**, the first field of each transaction. The primary means of transfer between the districts and the ARB will be through networked file transfer or via floppy disks.

This document specifies the positions, names, types, maximum widths, and number of decimal places for each field in the transactions. Each field can be one of the three following types: character, integer, or floating point. Character (CHAR) fields are alphanumeric and can contain any letters and/or numbers combination. Integer (Int) fields allow whole number without decimal points. Use of decimal values in an integer field may result in a number being rounded, truncated, or rejected depending upon the program used. Floating point (float) fields allow numbers with or without decimal points. In addition, floating point fields allow the use of scientific notation (e.g., 0.00135 can be represented as "1.35E-03"). Numbers longer than specified widths will likely cause the transaction to be rejected. For example, the UE field for the FACILITY table specifies a width of 6 and a decimal of 3, so the maximum value allowable value is 999.999.

An asterisk under the column "Req. Field" denotes a **REQUIRED FIELD** on the transaction. If it is not filled in, the transaction will be rejected. Of the required fields, the TDATE field is especially important because it allows ARB staff to track and differentiate between multiple inventory submittals from a given district. The TDATE field on each transaction should specify the date the transaction batch was generated.

New fields for CEIDARS2.5 are shown in the following tables in **bold font**.

Facility Transactions

Field Position	Field	Type	Req. Field	Width	Dec	Description
1	TRANS_ID	Char	*	3		Transaction ID: 'FAC'
2	CO	Number	*	2		County Number
3	FACID	Number	*	9		Facility ID
4	AB	Char	*	3		Air Basin
5	DIS	Char	*	3		District
6	ACTION	Char	*	1		Action: (A)dd, (C)hange, or (D)elete
7	FNAME	Char		60		Name of Facility at Location
8	FSTREET	Char		60		Street Address Where Facility is Located
9	FCITY	Char		20		City Where Facility is Located
10	FZIP	Int		5		Facility Zip Code
11	FZIPEXT	Int		4		Facility Zip Code Extension
12	PCONTACT	Char		24		Phone Contact Person
13	AREAC	Int		3		Telephone Area Code
14	PHONE	Int		7		Telephone Number
15	FSIC	Int	*	4		Facility SIC Code
16	NEMP	Int		5		Number of Employees
17	MNAME	Char		60		Company Name for Mailing Purposes
18	MSTREET	Char		60		Company Mailing Street
19	MCITY	Char		20		Company Mailing City
20	MSTATE	Char		2		Company Mailing State
21	MZIP	Int		5		Mail Zip Code
22	MZIPEXT	Int		4		Mail Zip Code Extension
23	MCONTACT	Char		24		Mail Contact Person
24	FCC	Int		5		Facility City Code
25	AQCR	Int		2		EPA Air Quality Control Region
26	FACSUBCO	Char		4		Facility Sub-County ID
27	CODESIG	Char		1		Area Designation for CO
28	NO2DESIG	Char		1		Area Designation for NO2
29	OZDESIG	Char		1		Area Designation for Ozone
30	PMDESIG	Char		1		Area Designation for Particulate Matter
31	SO2DESIG	Char		1		Area Designation for SO2
32	FAC_PHASE	Char		2		Phase Facility Brought into Program
33	FAC_STATUS	Char		1		Toxic Program Status
34	FAC_FORECAST	Char		1		Facility Used for Forecasting Purposes
35	PRIORITY	Char		1		Priority for Risk Assessment
36	INDUSTRYWIDE	Char		1		Included in Industry Wide
37	FACD1	Char		9		Reserved for District Use
38	FACD2	Char		9		Reserved for District Use
39	FRS_ID	Char		12		EPA Facility Registry System Identification
40	NAICS	Int		6		Facility North American Industry Classification
41	COORD_SYS	Char		3		Coordinate System Use
42	DATUM	Char		5		Type of Datum Used
43	SPHEROID	Char		10		Shape Used for Ellipsoidal Earth
44	X_USERCOORD	Number		7		X User Coordinate in COORD_SYS Units
45	Y_USERCOORD	Number		8		Y User Coordinate in COORD_SYS Units
46	LOC_METH	Char		3		Method of Collecting Data
47	SMALL_COMM	Char		1		Is Facility a Small Commercial or Aggregated
48	FAC_UPDATE	Char		3		Updating Code
49	CHAPIS	Char		1		CHAPIS Facility
50	VINTAGE_EMS	Int		4		Year of Emissions Data

Facility Transactions (Cont.)

Field Position	Field	Type	Req. Field	Width	Dec	Description
51	MEMO_FAC	Char		80		Comments on Facility
52	FACU_D	Date		8		District Updated Date (YYYYMMDD)
53	OPERATOR	Char		3		Operator Initials
54	TDATE	Date	*	8		Transaction Date (YYYYMMDD)

Facility Risk Transaction

Field Position	Field	Type	Req. Field	Width	Dec	Description
1	TRANS_ID	Char	*	3		Transaction ID: 'RSK'
2	CO	Number	*	2		County Number
3	FACID	Number	*	9		Facility ID
4	AB	Char	*	3		Air Basin
5	DIS	Char	*	3		District
6	ACTION	Char	*	1		Action: (A)dd, (C)hange, or (D)elete
7	VINTAGE_RISK	Int		4		Year of Risk Data
8	PROXIMITY	Float		9	2	Receptor Proximity, meters
9	CANCEREPP	Float		6	2	Cancer Priority Score, Emissions and Potency Procedure
10	NONCANCEREPP	Float		6	2	Non-cancer Priority Score, Emissions and Potency Procedure
11	ACUTEPP	Float		6	2	Acute Priority Score, Emissions and Potency Procedure
12	CHRONICEPP	Float		6	2	Chronic Priority Score, Emissions and Potency Procedure
13	CANCERDAP	Float		6	2	Cancer Priority Score, Dispersion Adjustment Procedure
14	NONCANCERDAP	Float		6	2	Non-cancer Priority Score, Dispersion Adjustment Procedure
15	ACUTEDAP	Float		6	2	Acute Priority Score, Dispersion Adjustment Procedure
16	CHRONICDAP	Float		6	2	Chronic Priority Score, Dispersion Adjustment Procedure
17	TS	Float		6	2	Total Priority Score
18	PRIORITY_MULT	Float		6	2	Priority Multiplier
19	HRA_CAN	Float		7	2	Health Risk Assessment Cancer Risk
20	CHRONIC_HI	Number		7	2	Chronic Hazard Index
21	ACUTE_HI	Number		7	2	Acute Hazard Index
22	OPERATOR	Char		3		Operator Initials
23	TDATE	Date	*	8		Transaction Date (YYYYMMDD)

Stack Transactions

Field Position	Field	Type	Req. Field	Width	Dec	Description
1	TRANS_ID	Char	*	3		Transaction ID: 'STK'
2	CO	Number	*	2		County Number
3	FACID	Number	*	9		Facility ID
4	AB	Char	*	3		Air Basin
5	DIS	Char	*	3		District
6	ACTION	Char	*	1		Action: (A)dd, (C)hange, or (D)elete
7	STK	Int	*	6		Stack ID
8	STKNAME	Char		60		Stack Name
9	STKHT	Int		4		Stack Height (Feet)
10	STKDIAM	Float		4	1	Stack Diameter at Exit(feet)
11	GT	Int		4		Actual Gas Temp at Exit (Deg F)
12	GF	Int		8		Actual Gas Flow (CFM)
13	GV	Int		6		Actual Gas Velocity at Exit (Ft/min)
14	COORD_SYS	Char		15		Coordinate System Use
15	DATUM	Char		5		Type of Datum Used
16	SPHEROID	Char		10		Shape Used for Ellipsoidal Earth
17	X_USERCOORD	Number		7		X User Coordinate in COORD_SYS Units
18	Y_USERCOORD	Number		8		Y User Coordinate in COORD_SYS Units
19	ELEV	Number		8		Elevation in Feet
20	SRCTYP	Char		8		Type of Release
21	SYINIT	Number		9	3	Initial Lateral Dimension of Volume Release, feet
22	SZINIT	Number		9	3	Initial Vertical Dimension of Volume or Area Release (Optional for Area), feet
23	XINIT	Number		9	3	Square Length or Rectangular Side of Area Release, feet
24	YINIT	Number		9	3	Rectangular Side of Area or Open Pit Release (Optional for Area), feet
25	ANGLE	Number		5	2	Angle of Area or Open Pit Source, degree (Optional)
26	PITVOL	Number		15	2	Volume of Open Pit Source, ft ³
27	ISDEFAULT	Char		1		Flag to indicate Stack Data are default
28	MEMO_STK	Char		80		Comment on Stack
29	STKU_D	Date		8		District Updated Date (YYYYMMDD)
30	OPERATOR	Char		3		Operator Initials
31	TDATE	Date	*	8		Transaction Date (YYYYMMDD)

Device Transactions

Field Position	Field	Type	Req. Field	Width	Dec	Description
1	TRANS_ID	Char	*	3		Transaction ID: 'DEV'
2	CO	Number	*	2		County Number
3	FACID	Number	*	9		Facility ID
4	AB	Char	*	3		Air Basin
5	DIS	Char	*	3		District
6	ACTION	Char	*	1		Action: (A)dd, (C)hange, or (D)elete
7	DEV	Int	*	6		Device ID
8	DEVNM	Char		40		Local Name of this Device
9	PERID	Char		32		Local Permit ID
10	NUMDEV	Int		5		Number of Devices Represented
11	AIRS_POINT	Char		3		EPA Airs Point ID
12	EQSIZE	Float		7	1	Equipment Size
13	EQSIZE_CF	Char		1		Equipment Size Confidential Flag
14	EQUNITC	Int		5		Equipment Size Units Code
15	DEVSUBCO	Char		4		Sub-County Indicator
16	EQTYPEC	Int		5		Equipment Type Code
17	SECT	Int		2		Section
18	TWNSHP	Int		2		Township
19	TWNSHPB	Char		1		Township Base
20	RANGE	Int		2		Range
21	RANGEB	Char		1		Range Base
22	DEVD1	Char		10		Reserved for District Use
23	DEVD2	Char		10		Reserved for District Use
24	DEVCAP	Int		4		Device Output Capacity
25	MEMO_DEV	Char		80		Comments on Device Information
26	DEVU_D	Date		8		District Updated Date (YYYYMMDD)
27	OPERATOR	Char		3		Operator Initials
28	TDATE	Date	*	8		Transaction Date (YYYYMMDD)

Process Transactions

Field Position	Field	Type	Req. Field	Width	Dec	Description
1	TRANS_ID	Char	*	3		Transaction ID: 'PRO'
2	CO	Number	*	2		County Number
3	FACID	Number	*	9		Facility ID
4	AB	Char	*	3		Air Basin
5	DIS	Char	*	3		District
6	ACTION	Char	*	1		Action: (A)dd, (C)hange, or (D)elete
7	DEV	Int	*	6		Device ID
8	PROID	Int	*	14		Process ID
9	PRDESC	Char		60		Process Description
10	SCC	Int	*	14		SCC or EIC
11	SIC	Int		14		Standard Indust. Class or EIC
12	PR	Int		11		Process Rate in SCC Units
13	PRUNITS	Int		4		Process Rate Unit Code
14	UPR	Float		12	1	Unreconciled Process Rate
15	MAXHR_PR	Int		9		Maximum Hourly Process Rate
16	MAXD	Float		9	3	Maximum Design Rate
17	S	Float		3	2	Percent Fuel Sulfur Content
18	PRORIG	Int		3		Process Rate Origin Code
19	PRREL	Int		3		Process Rate Reliability
20	STK	Int		6		Stack ID
21	HPDY	Int		2		Operating Hours per Day Daily
22	DPWK	Int		2		Operating Days per Week
23	WPYR	Int		2		Operating Weeks per Year
24	YREST	Int		4		Year of Process/Emission Estimate Made
25	PROD1	Char		40		Reserved for District Use
26	PROD2	Char		40		Reserved for District Use
27	PR_FORECAST	Char		1		Process Specific Forecast Indicator
28	CONF	Char		1		Confidential Process Data
29	JANT	Float		4	1	Percent Activity for January
30	FEBT	Float		4	1	Percent Activity for February
31	MART	Float		4	1	Percent Activity for March
32	APRT	Float		4	1	Percent Activity for April
33	MAYT	Float		4	1	Percent Activity for May
34	JUNT	Float		4	1	Percent Activity for June
35	JULT	Float		4	1	Percent Activity for July
36	AUGT	Float		4	1	Percent Activity for August
37	SEPT	Float		4	1	Percent Activity for September
38	OCTT	Float		4	1	Percent Activity for October
39	NOVT	Float		4	1	Percent Activity for November
40	DECT	Float		4	1	Percent Activity for December
41	SPATIAL	Char		8		Spatial Distribution Parameter
42	SEST	Char		6		Agency Making Area Estimate
43	NAICS	Char		6		NAICS Code
44	OUTPUT	Int		11		Process Rate Output
45	MEMO_PR	Char		80		Process Information Memo
46	PRUP_D	Date		8		District Updated Date (YYYYMMDD)
47	OPERATOR	Char		3		Operator Initials
48	TDATE	Date	*	8		Transaction Date (YYYYMMDD)

Emission Transactions

Field Position	Field	Type	Req. Field	Width	Dec	Description
1	TRANS_ID	Char	*	3		Transaction ID: 'EMS'
2	CO	Number	*	2		County Number
3	FACID	Number	*	9		Facility ID
4	AB	Char	*	3		Air Basin
5	DIS	Char	*	3		District
6	ACTION	Char	*	1		Action: (A)dd, (C)hange, or (D)elete
7	DEV	Int	*	6		Device ID
8	PROID	Int	*	14		Process ID
9	POL	Int	*	9		Pollutant Code
10	UEMFACT	Int		10		Uncontrolled Emission Factor
11	CNTL1	Int		3		Primary Pol. Control Device Code
12	CNTL2	Int		3		Secondary Pol. Control Device Code
13	CNTLEFF	Float		4	1	Control Efficiency (Percent)
14	EMFACT	Int		10		Emission Factor (Lbs/SCC Units)
15	EMORIG	Int		3		Emission Factor Origin Code
16	EMREL	Int		3		Emission Factor Reliability
17	FRAC_1	Float		5	4	District Specified ROG or PM10 OR NOX Fraction
18	FRAC_2	Float		5	4	District Specified VOC or PM2.5 Fraction
19	EMS	Float	*			Annual Emissions
20	HRMAXEMS	Float				Maximum Hourly Emissions
21	METH	Int		2		Emission Calculation Method Code
22	REASCH	Int		2		Reason Emission Changed Code
23	EXEMS	Float				Total Excess Emissions
24	UNREMS	Float		9	1	Unreconciled Emissions (Tons/year)
25	POTENTIAL	Float				Potential Emissions for District's Use
26	EMS_FORECAST	Char		1		Pollutant Specific Forecast Indicators
27	MAINTAINED	Char		1		Flag to Indicate Whether this Emission is Agreed to Regulatory be Maintained by Districts
28	MEMO_EMS	Char		80		Comments on Emission Information
29	EMSUP_D	Date		8		District Updated Date (YYYYMMDD)
30	OPERATOR	Char		3		Operator Initials
31	TDATE	Date	*	8		Transaction Date (YYYYMMDD)

Excess Emission Transactions

Field Position	Field	Type	Req. Field	Width	Dec	Description
1	TRANS_ID	Char	*	3		Transaction ID: 'EXC'
2	CO	Number	*	2		County Number
3	FACID	Number	*	9		Facility ID
4	AB	Char	*	3		Air Basin
5	DIS	Char	*	3		District
6	ACTION	Char	*	1		Action: (A)dd, (C)hange, or (D)etele
7	DEV	Int	*	6		Device ID
8	PROID	Int	*	14		Process ID
9	POL	Int	*	9		Pollutant Code
10	EXTYPE	Int	*	3		Type of Excess Emissions Code
11	EXQTR	Int	*	1		Quarter of Year of Excess Emissions
12	EXYR	Int	*	4		Calendar Year of Excess Emissions
13	EXCESS	Float	*			Excess Emissions
14	OPERATOR	Char		3		Operator Initials
15	TDATE	Date	*	8		Transaction Date (YYYYMMDD)

Supplemental Transactions

Field Position	Field	Type	Req. Field	Width	Dec	Description
1	TRANS_ID	Char	*	3		Transaction ID: 'SUP'
2	CO	Number	*	2		County Number
3	FACID	Number	*	9		Facility ID
4	AB	Char	*	3		Air Basin
5	DIS	Char	*	3		District
6	ACTION	Char	*	1		Action: (A)dd, (C)hange, or (D)etele
7	POL	Int	*	9		Pollutant Code
8	USED	Char		1		Is this Substance Used?
9	PRODUCED	Char		1		Is this Substance Present?
10	PRESENT	Char		1		Is this Substance Otherwise Present?
11	HOW_PRESENT	Char		39		How Substance Is Otherwise Present
12	OPERATOR	Char		3		Operator Initials
13	TDATE	Date	*	8		Transaction Date (YYYYMMDD)

Building Transactions

Field Position	Field	Type	Req. Field	Width	Dec	Description
1	TRANS_ID	Char	*	3		Transaction ID: 'BLD'
2	CO	Number	*	2		County Number
3	FACID	Number	*	9		Facility ID
4	AB	Char	*	3		Air Basin
5	DIS	Char	*	3		District
6	ACTION	Char	*	1		Action: (A)dd, (C)hange, or (D)elete
7	ID	Int	*	5		Building ID
8	TIER	Int		5		Tier ID
9	DESCRIPTION	Char		80		Building Description
10	HEIGHT	Float		5	2	Building Height from Ground Level, Meters
11	ELEVATION	Float		7	2	Elevation of Base of Building, Feet
12	NPTS	Int		2		Number of Vertex Points
13	ISDEFAULT	Char		1		Are Building Data Defaulted?
14	OPERATOR	Char		3		Operator Initials
15	TDATE	Date	*	8		Transaction Date (YYYYMMDD)

Building Point Transactions

Field Position	Field	Type	Req. Field	Width	Dec	Description
1	TRANS_ID	Char	*	3		Transaction ID: 'BLP'
2	CO	Number	*	2		County Number
3	FACID	Number	*	9		Facility ID
4	AB	Char	*	3		Air Basin
5	DIS	Char	*	3		District
6	ACTION	Char	*	1		Action: (A)dd, (C)hange, or (D)elete
7	ID	Int	*	5		Building ID
8	TIER	Int	*	5		Tier ID
9	POINTID	Int	*	5		Vertex Point ID
10	PLOTORDER	Int		5		Plot Order
11	UTME	Float		9	2	UTM East Offset In Meters, Relative to Facility
12	UTMN	Float		9	2	UTM North Offset In Meters, Relative to Facility
13	OPERATOR	Char		3		Operator Initials
14	TDATE	Date	*	8		Transaction Date (YYYYMMDD)

Property Transactions

Field Position	Field	Type	Req. Field	Width	Dec	Description
1	TRANS_ID	Char	*	3		Transaction ID: 'PRT'
2	CO	Number	*	2		County Number
3	FACID	Number	*	9		Facility ID
4	AB	Char	*	3		Air Basin
5	DIS	Char	*	3		District
6	ACTION	Char	*	1		Action: (A)dd, (C)hange, or (D)elete
7	ID	Int	*	5		Property ID
8	DESCRIPTION	Char		80		Property Description
9	NPTS	Int		5		Number of Vertex Points
10	ISDEFAULT	Char		1		Are Building Data Defaulted?
11	OPERATOR	Char		3		Operator Initials
12	TDATE	Date	*	8		Transaction Date (YYYYMMDD)

Property Data Transactions

Field Position	Field	Type	Req. Field	Width	Dec	Description
1	TRANS_ID	Char	*	3		Transaction ID: 'PRP'
2	CO	Number	*	2		County Number
3	FACID	Number	*	9		Facility ID
4	AB	Char	*	3		Air Basin
5	DIS	Char	*	3		District
6	ACTION	Char	*	1		Action: (A)dd, (C)hange, or (D)elete
7	ID	Int	*	5		Property ID
8	POINTID	Int	*	5		Vertex Point ID
9	PLOTORDER	Int		5		Plot Order
10	UTME	Float		9	2	UTM East Offset In Meters, Relative to Facility
11	UTMN	Float		9	2	UTM North Offset In Meters, Relative to Facility
12	ELEVATION	Float		7	2	Elevation, Feet
13	OPERATOR	Char		3		Operator Initials
14	TDATE	Date	*	8		Transaction Date (YYYYMMDD)

Receptor Transactions

Field Position	Field	Type	Req. Field	Width	Dec	Description
1	TRANS_ID	Char	*	3		Transaction ID: 'RCP'
2	CO	Number	*	2		County Number
3	RECID	Number	*	10		Receptor ID
4	AB	Char	*	3		Air Basin
5	DIS	Char	*	3		District
6	ACTION	Char	*	1		Action: (A)dd, (C)hange, or (D)elete
7	RECGROUP	Char		8		Receptor Group
8	RECTYPE	Char		50		Receptor Type
9	UZ	Int		3		UTM Zone
10	UE	Float		9	2	UTM East In Meters
11	UN	Float		9	2	UTM North In Meters
12	OPERATOR	Char		3		Operator Initials
13	TDATE	Date	*	8		Transaction Date (YYYYMMDD)